

Inventor iLogic

In this class you will learn how iLogic functionality furthers the use of parameters in a model by adding an additional layer of intelligence. By setting criteria in the form of established rules you learn to capture design intent, enabling you to automate the design workflow to meet various design.

Objectives

- iLogic functionality overview
- iLogic workflow overview
- Review of model and user-defined parameters, and equations and their importance in iLogic
- Understanding the iLogic interface components (iLogic Panel, Edit Rule dialog box, and iLogic Browser)
- Rule creation workflow for Inventor parts and assemblies
- Using variations of conditional statements in an iLogic rule
- Accessing and incorporating the various function types into an iLogic part, assembly, or drawing file rule
- Event Triggers and iTriggers
- Creating Forms to create a custom user interface for an iLogic rule.

Duration

2 Days

Prerequisite

This class is designed for the advanced Inventor Users and assumes a mastery of Autodesk Inventor basics as taught in Autodesk Inventor Essentials class. Completion of Autodesk Inventor Advanced Part and Assembly Modelling training is also highly recommended. No programming knowledge is required to use the basic iLogic functions; however, programming experience can be an asset when using the advanced functions.

Topics Covered

- Introduction to iLogic
 - Design Automation Overview
 - Logic Overview & Workflow
- Understanding Parameters and Equations
- Getting Started with iLogic
 - iLogic Interface
 - Function Overview
 - Rule Creation Workflow
- Rule Creation
 - a. Conditional Statements and Operators
 - b. Parameter and Feature Functions
 - c. iProperty Functions
- Assembly Rules and Functions
 - Assembly Rules
 - Component and Relationship Functions
 - iLogic Components in Inventor Assemblies
- Chapter 6 Drawing Rules and Functions
 - Drawing Rules
 - Sheet, Title Block and View Functions
 - Advanced Functions
- Rule Triggering & Form Creation
 - Event Triggers
 - Forms
- Miscellaneous Features & Functions
 - Rule Options
 - Search and Replace
 - Wizards
 - Miscellaneous Functions
- Project Practices